#### CIA-RDP86-00513R001549820012-9

The Anomaly of the Magnetic Anisotropy of K<sub>3</sub>Fe(CH)<sub>6</sub> Single Crystals at Low Temperatures

SOV/56-35-3-12/61

the opposite direction). Interaction between para-

magnetic ions is looked upon as the cause of this anisotropy.

There are 2 figures and 16 references, 4 of which are

Soviet.

ASSOCIATION:

Institut biologii i meditsiny Akademii nauk Germanskoy

Demokraticheskoy Respubliki (Institute of Biology and

Medicine of the German Democratic Republic)

SUBMITTED:

April 25, 1958

Card 3/3

GISINA, K.B.; SHOFER, R.T.

Effect of interface movement in capillary-porous and colloid bodies on heat and mass transfer process during the sublimation of ice in a vacuum. Inzh.-fiz. zhur. 7 no.5:34-38 My '64. (MIRA 17:6)

1. Institut teplo- i massoobemena AN BSSR, Minsk.

CIA-RDP86-00513R001549820012-9

STORYA, N. F.

Fueling of tractors, cars and combines used in agriculture. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1949. 84 p. (V pomoshch' neftebazam MTS i sovkhozov) (50-29827)

\$760.R9Sh8

CIA-RDP86-00513R001549820012-9

(Petroleum product accounting in machine-tractor stations and sovkhozes)
Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry,
1949. 107 p. ( V pomoshch' neftebazam MTS i sovkhozov) (50-27584).

TP692.5.S5

CIA-RDP86-00513R001549820012-9

The construction and acuit ent of petrolems supply bases at sachine-tractor stations and sovehouses. Accepts, Jos. nauchno-tekhn. trd-vo neftianoi i morno-toplivnoi lit-ry, 1949. 125 i. (V romocheh'neftebazam i To i sovehousev) (50-27585)

TEG-2.5.368

CIA-RDP86-00513R001549820012-9

SHOFFA, M. F.

The utilization of petroleum at the machine-tractor stations and sovkhozes. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1949. 139 p. (V pomoshch' neftebazam MTS i sovkhozov) (51-19416)

TP692.5.Sh78

CIA-RDP86-00513R001549820012-9

Short manual for employees handling petroleum products at machine-tractor stations and state farms; Moskva, Gos. nauch-tekhn. izd-vo neftianoi i gornotoplivnoi lit-ry, 1951.

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress, May 1952. Uncl.

#### "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549820012-9

AID P - 516

57/3359 A

Subject : USSR/Engineering

Card 1/1

Pub. 93 - 3/12

Author

: Shoffa, N. F., Engineer

Title

: Equipment for the preparation of reinforcing frameworks

Periodical: Sbor. mat. o nov. tekh. v stroi., 6, 9-12, 1954

Abstract

: Work benches are suggested for assembling and welding of

reinforcing bar frameworks for concrete structures. 6 diagrams show the details.

Institution: None

Submitted : No date

SHOFFA, N.F.; YERSHOV, P.R., vedushchiy redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

[Petroleum products at machine-tractor stations and on state farms; brief manual] Neftekhoziaistvo MTS i sovkhozov; kratkii spravochnik. 2-e izd., ispr. i dop. Moskva, Gos. nauchno-tekhnicheskoe izd-vo neftianoi i gorno-toplivnoi lit-ry, 1955. 210 p. (MIRA 8:10) (Petroleum products)

# "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549820012-9

SHOFFA, N., inzhener.

Fifty blocks per shif\* instead of thirty. Stroitel' 2 no.9511 S'56.

(MIRA 10:1)

(Granes, derricks, etc) (Building blocks)

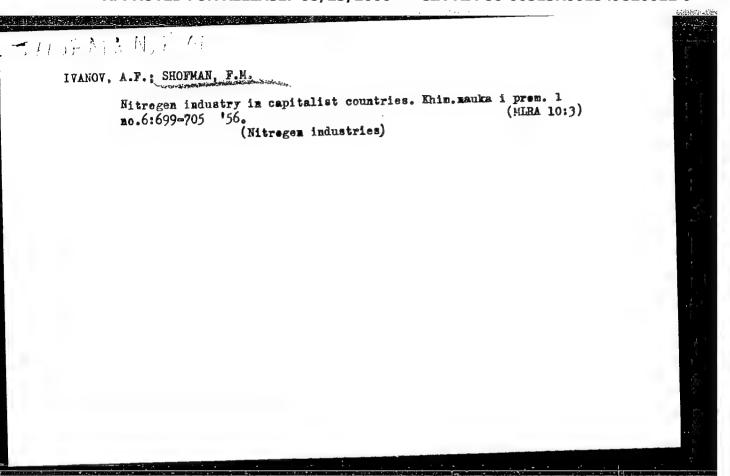
GRECHUSHNIKOV, G.A., glavnyy inzhener; SHOFFA, N.F., inzhener.

Welding one-dimensional and three-dimensional reinforcement frames on the MTP-75 and MTB-100 welding machines. Stroi.prom.34 no.6:8-10 Je 156. (MLRA 9:9)

1.Orgstrey Minmetallurgkhimstroya SSSR. (Reinforced concrete) (Electric welding)

SHOFMAN, A.B.

From the work of the analysis department of pharmacy Ho,ll in Leningrad. Apt. delo 10 no.6:59-61 N-D '61. (MIRA 15:2) (LENINGRAD\_PHARMACY) (CHEMISTRY, ANALYTIC)



CIA-RDP86-00513R001549820012-9

IVANOV, A.F.; SHOFMAN, F.M.

Production of synthetic ammonia in the United States, Biul.tekh.ekon.inform. no.12:80-84 '59. (HIRA 13:4)

(United States--Ammonia)

IVANOV, A.F.; SHOFMAN, F.M. Production of nitrogen fertilizers in the United States. Biul.tekh.-ekon.inform. no.2:93-96 60. (MIRA 13:6)

(United States--Nitrates)

IVANOV, A.F.; SHOFMAN, F.M.

Nitrogon fertilizer industry of the capitalist countries in Western Europe. Biul.tekh.-ekon.inform. no.7:92-95 (MRA 13:7)

160. (Europe, Western-Fartilizer industry)

# "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549820012-9

SHOFMAN, F.M.

Synthetic fibers and chemical raw materials used in their manufacture. Biul.tekhn.-ekon.inform. no.12:86-91 60. (MIRA 13:12) (Textile fibers, Synthetic)

#### CIA-RDP86-00513R001549820012-9

SHIFIMM, E. A.

Glubokaia vytiazhka listovogo metalla. Moskva, 1945. h6 p. diagrs. (Institut tekhiniko-ekonomicheskoi informatsii (Izdaniia) 1945, No 2)

(Extrustion of sheet metal.)

DLC: TS250.S46

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

## "APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001549820012-9

SHIP MM, M. A.

Avtomatizatsiia i mekhanizatsiia shtampoval'nykh rabot. Moskva, JOHIM Gosplana SiSR, 19hb. 56 p.

(Automatization and mechanization of stamping operations.)

S0: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

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\*SHOFMAN, L. A.

"Mensurement of the Speed of the Members of a Forging Machine," Vest. Mashinostroy.,
No. 6, 1948, Cand. Tech. Sci.

CIA-RDP86-00513R001549820012-9

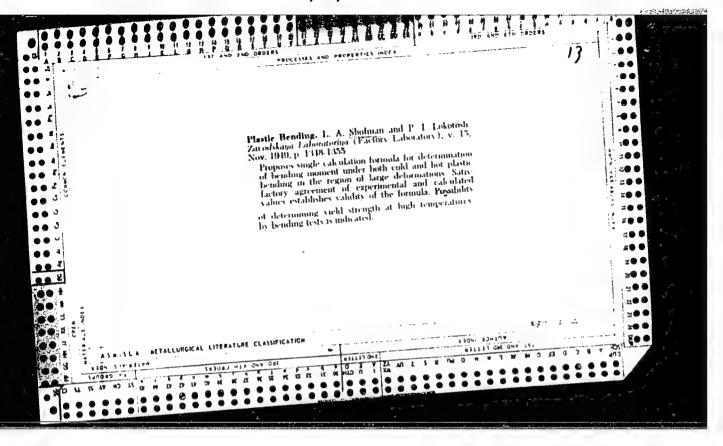
Mekhanizatsiia i avtematizatsiia shtampoval'nykh rabot. (Vestn. Mash., 19hs, so. 10, p. 52-56)

(Mechanization and automatization of stamping operations.)

DLC: TMh.Wh

SC: Manufacturin; and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.

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Shofman, L. A.

"Experimental Investigation of Cold and Hot Upsetting", from book "Novyye Issledovoniya v Oblasti Kuznechnoy Tekhnologii", Edited by Ye. P. Unksov, Mashgiz, 1950, Moscow.

Shofman, L.

"Ring Upsetting", Chapter LX from Book "Principles and Theory of Cold Stamping", Oboromgiz, Moscow, 1952 (TS 462 S 45).

CHETTAN, L A

Elementy Teorii Kholodnoy Shtampovki (Factors in The Theory of Gold Stamping) Moskva, Chorongiz, 1952.

33b p. Illus., Diagrams, Tables. Literatura: p. 330--(332)

STEPANOV, V.N.; SHOFMAN, L.A., rdaktor; ZUDAKIN, I.M., tekhnicheskiy redaktor,

[Technology of stamping parts and of the construction of dies]
Tekhnologiia chekanki shtampovannykh detalei i konstruktsii
chekanochnykh shtampov. Moskva, Gos. izd-vo oboronnoi promyshl..
1954. 190 p.
(Dies (Metalworking) (Forging)

MAIOV, A.N.; SHOFMAN, L.A., kandidat tekhnicheskikh nauk, redaktor; ZUDAKIH, T.M., tekhnicheskiy redaktor

[The operator of cold stamping machinery] Shtampovshchik po kholodnoy shtampovke. Moskva, Gos. izd-vo oboronnoi promyshlennosti, 1954. 214 p. (MLRA 8:6) (Power presses) (Metals-Cold working)

SHOFMAN, L.A., kandidat tekhnicheskikh nauk.

Study of drawing and drop forging of large-diameter sheet-metal end plates. [Trudy] TSNIITMASH 62:102-130 '54. (MIRA 7:9)

(Extrusion (Metals)) (Forging) (Sheet metal work)

ALTYKIS, A.V., kandidat tekhnicheskikh nauk; SHOFMAN, L.A., kandidat tekhnicheskikh nauk;

Effect of pooning on the drawing of shoot metal. Metalloved. i obr.met. no.8:37-42 Ag '56. (HIRA 9:10)

1.TSentral'myy Nauchne-issledevatel'skiy institut tekhnelegii i mashimestreyeniya. (Sheet steel--Hardening) (Deep drawing (Hetalwerk))

SHOFMAN, L.A., kandidat tekhnicheskikh nauk.

New methods for calculating the processes of three-dimensional stamping. Vest.mash.36 no.12:54-60 D '56. (MLRA 10:2)

(Sheet-metal work) (Deep drawing (Metalwork))

SOV/137-57-11-21404 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 106 (USSR)

AUTHOR: Shofman, L.A.

TITLE: Elements of the Theory and Investigation of the Stamping of

Sheet and Thick Blanks (Elementy teorii i issledovaniya ob"-

yemnoy i listovoy shtampovki)

ABSTRACT: Bibliographic entry on the Author's dissertation for the de-

gree of Doctor of Technical Sciences, presented to the Mosk.

in-t tsvet. met. i zolota (Moscow Institute of Nonferrous

Metals and Gold), Moscow, 1957

ASSOCIATION: Mosk. in-t tsvet. met. i zolota (Moscow Institute of Non-

ferrous Metals and Gold), Moscow

Card 1/1

IL'IN, M.M.; SHOFMAN, L.A., kandidat tekhnicheskikh nauk, retsenzent;

KUZNETSOVA, A.G. izdatel'skiy redaktor; KOKHTKY, A.A., inzhener,
redaktor; ROZHIN, V.P., tekhnicheskiy redaktor.

[Production of one-piece steel ring blanks] Proizvodstvo stal'nykh
tsel'nokatanykh kolets-zagotovok. Moskva, Gos.izd-vo eber.promyshl.
1957. 126 p.

(Rolling (Metalwork))

itarija klasticki koliti.

OKHRIMENKO, Yakov Mikhaylovich; ARISTOV, V.M., kand.tekhn.nauk, retsenzent; SHOFMAN, L.A., kand.tekhn.nauk, red.; MEZHOVA, V.A., red.izd-va; -MODEL, B.O., tekhn.red.; TIKHANOV, A.Ya., tekhn.red.

[Principles of swaging] Osnovy tekhnologii goriachei shtampovki.

Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 328 p.

(Forging)

SHOFMAN, LA

137-58-5-9550

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 104 (USSR)

AUTHOR:

Shofman, L. A.

TITLE:

Problems of the Kinematics of Changes in Shape Due to Pressworking of Metals (Voprosy kinematiki formoizmeneniya pri obrabotke metallov davleniyem)

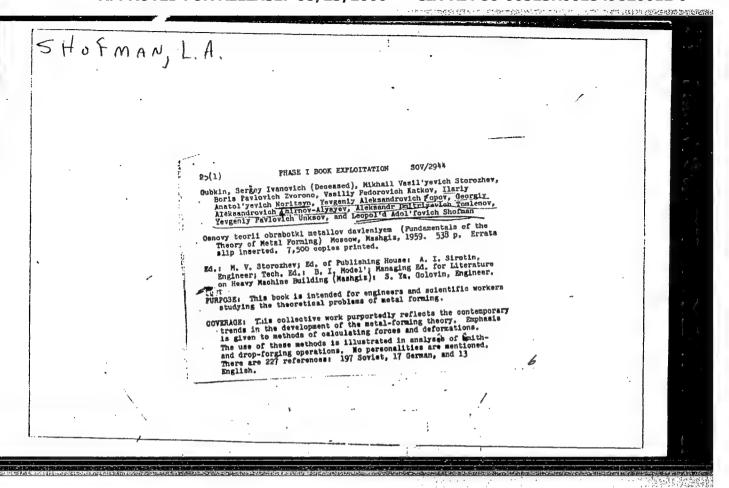
PERIODICAL: V sb.: Inzhenern. metody rascheta tekhnol. protsessov obrabotki metallov davleniyem. Moscow-Leningrad, Mashgiz, 1957, pp 207-215

ABSTRACT:

A study of problems relating to changes in shape provides suitable criteria for the choice of optimal dimensions and shapes for the initial billet. A theoretical analysis of the movement of particles of matter and elementary units of the body being deformed is made from this point of view, and examples illustrating the propositions set forth are examined.

1. Metals--Deformation 2. Metals--Processing 3. Industrial plants --Standards

Card 1/1



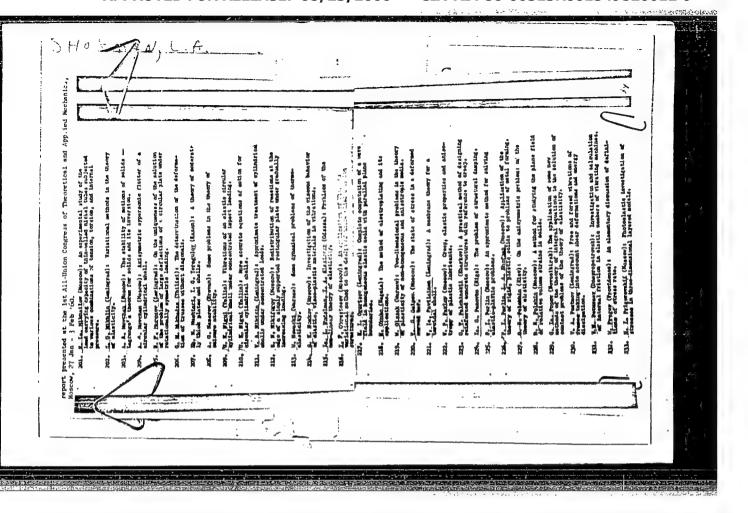
(MIRA 12:10)

SHOFMAN, L.A.: PERLIN, P.I.

Theoretical analysis of the processes of shaping a rigid-plastic body by pressure. Kuz.-shtam.proizv. 1 no.4:4-10 Ap 159.

(Deformations (Mechanics)) (Forming)

#### CIA-RDP86-00513R001549820012-9

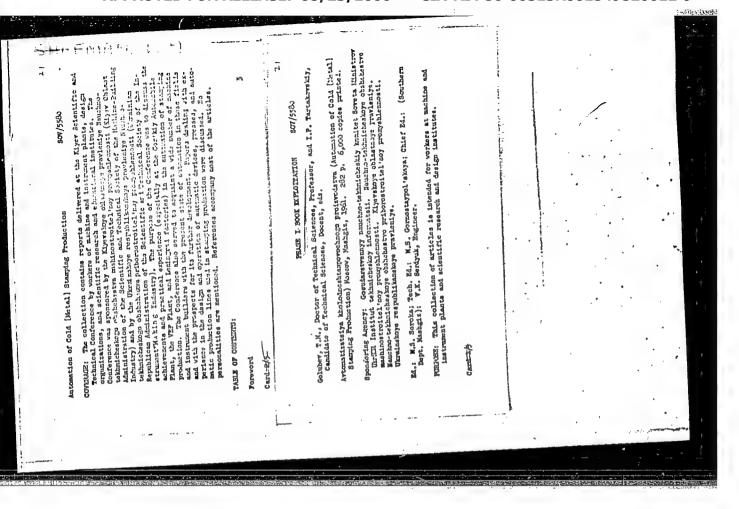


GOROZHANKIN, A.N., kand.tekhn.nauk; NOVITSKIY, V.K., kand.tekhn.nauk;
KRYANIN, I.R., doktor tekhn.nauk; IODKOVSKIY, S.A., kand.tekhn.
nauk; LADYZHENSKIY, B.N., kand.tekhn.nauk; MIL'MAN, B.S., kand.tekhn.
nauk; KIOCHNEV, N.I., kand.tekhn.nauk; TSYPIN, I.O., kand.tekhn.
nauk; LEVIN, M.M., kand.tekhn.nauk; BALDOV, A.L., inzh.; LYASS,
A.M., kand.tekhn.nauk; CHERNYAK, B.Z., kand.tekhn.nauk; ASTAF'YEV,
A.A., kand.tekhn.nauk; YERMAKOV, K.A., inzh.; GRIBOYEDOV, Yu.N.,
kand.tekhn.nauk; MYASOYEDOV, A.N., inzh.; BOGATYREV, Yu.M., kand.
tekhn.nauk; UNKSOV, Ye.p., doktor.tekhn.nauk, prof.; SHOFMAN, L.A.,
kand.tekhn.nauk; PERLIN, P.I., inzh.; MOSHNIN, Ye.N., kand.tekhn.
nauk; PROZOROV, L.V., doktor tekhn.nauk; CHERNOVA, Z.I., tekhn.

[Some technological problems in the manufacture of heavy machinery]
Nekotorye vorrosy tekhnologii tiazhelogo mashinostroeniia. Moskva,
Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Part 1:[Steel smelting and casting, founding, heat treatment, shaping metals by pressure] vyplavka i razlivka etali, liteinos proizvolstvo, termicheskaia obrabotka, obrabotka metallov davleniem, 1960. 266 p. (Moscow.
TSentral'nyi nauchno-issledovatel'skii institut tekhnologii i mashinostroeniia. [Trudy] no. 98).

(Steel) (Founding) (Forging)

#### CIA-RDP86-00513R001549820012-9



#### CIA-RDP86-00513R001549820012-9

Automation of Cold [Metal] Stamping Production  Enrichteyn, D. Ye. Automation of Stamping in Press Shops (Pron the Fractice at GAZ (Gor'kiy Automobile Flant))  Romanovskiy, V.P. Automation of Stamping Processes at Leningrad Flants  Lenin, P.H. Bechanization and Automation of Stamping Operations (From Yestery Fractice)  Konkkin, L.W. Automatic Rotary Transfer-Eachine Lines  Kravchen's, D.G. Automation of Stamping Presses (From the Practice of the Romanul'skiy kaved mekhanishoskikh presses (From the Practice of the Romanul'skiy kaved mekhanishoskikh presses (Barmaul Mechan-Plant)  Pendenko, Yo. I. Investigating the Operation of Automatic Stamping  Franketion Lines for Rolay Springs  Ziotnikov, S.L. Some Problems of Automation in Stamping Production  Shotton, L.A. The Present State of Stamping Production and Antici-Caral-3/5-				-	
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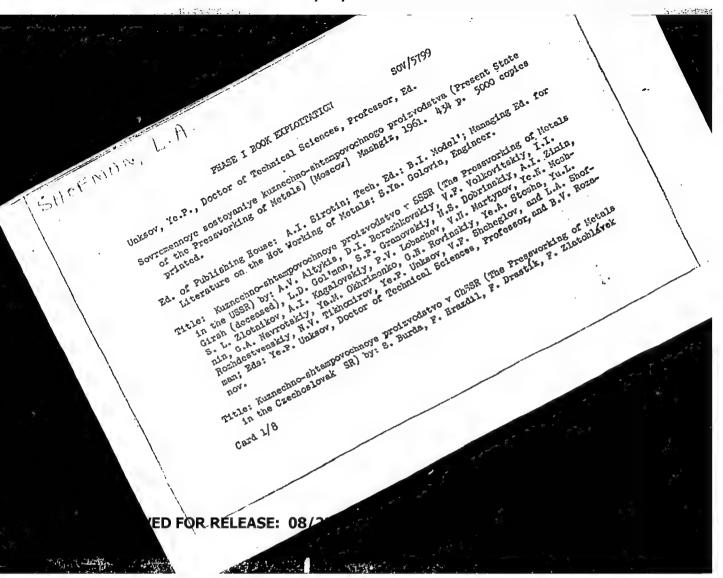
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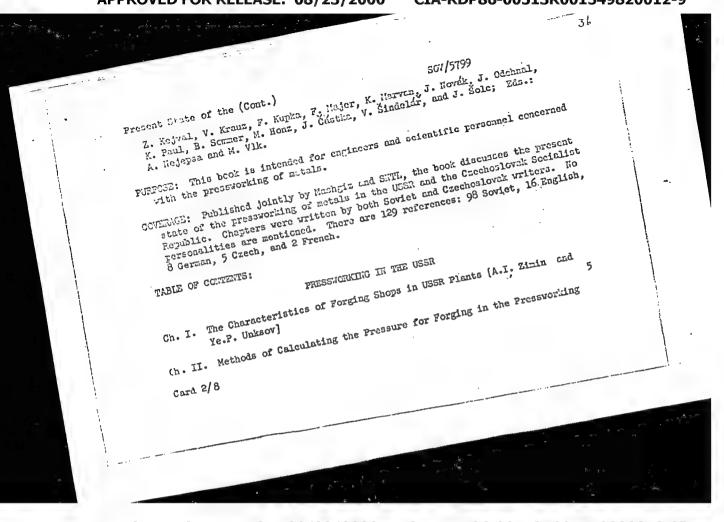
SOV/5490

Shofman, Leopol'd Adol'forich, Dostor of Technical Sciences

- Osnovy rascheta projectsov shtampovki i pressovaniya (Fundamentals for the Calculation of Die-Forging and Extrusion Processes) Moscow, Mashgiz, 1961. 339 p. Errata slip inserted. 9,000 copies printed.
- Ed.: G.M. Makovskiy, Engineer; Ed. of Publishing House: L.A. Osipova; Tech. Ed.: Z.I. Chernova; Managing Ed. for Literature on Hot-Processed Metals: S.Ya. Golovin, Engineer.
- PURPOSE: This book is intended for technical personnel in dis-forging shops, planning organizations, and scientific research institutes; it may also be used by teachers and students in technical schools.
- COVERAGE: Fundamentals of theories and methods of calculating the parameters of processes of forging, extrusion, and die forging of three-dimensional, sheet, and tubular blanks are stated. Sample calculations and data concerning the selection of paramenters for press-forging equipment are also given. A considerable part of the book is based on work carried out by P.I. Perlin, Candidate of Physics

Card 1/5





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Ch. IX. Experience in the Cold Impact Forging of Honferrous Metalia [K. Maryan and J. Olchnal, Plant Tecla, Hational Enterprise, Eloubetin, and V. Sindalar, Scientific Research Institute of Housettienl Engineering, Progue	. 381	
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Ch. XI. The Mechanization of Obsolete Enterprises as a Means of In- creasing Labor Productivity [B.Schmer, Vitkovice Metallurgi-	, 410	
Ch. XII. The Initial Pressworking of Fell Alloys and Large FeCrAl Coatings [F. Majer and J. Sole, Scientific Research Institute of Iron, Prope].		
Card 7/8		
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also 1454

AUTHOR:

Shofman, L.A

The technology of stamping large parts

Kuznechno-shtampovochnoye proizvodstvo, no. 6, 1961, 1-4 TITLE:

TEXT: New heavy hydraulic stamping presses in the USSR require new and improved technology. Only comparatively small aluminum parts could be cold stamped up till now. The article deals with the suggestions made after PERIODICAL: theoretical and experimental investigations that were carried out at TsXBiiii and TsNIITMASh. The calculation method for pressure and metal flow has not been included since it was published previously: L.A. Shofman (Ref. 1: Osoeen included since it was published previously: b.A. Shorman (Ref. 1: Usnovy rascheta protsessov shtampovki i pressovaniya [Fundamental calculations
of stamping and pressing processes], Mashgiz, 1961) and L.A. Shofman and
p.T. Parlin (Ref. 2: Osnovy teorii chrabatki metallow devianium) P.I. Perlin (Ref. 2: Osnovy teoril obrabotki metallov davleniyem (Fundamen-F.1. Perlin (Ker. 2: Usnovy teorii obrabotki metallov davleniyem [Fundamental theory of pressure metal working], ch. 7, Mashgiz, 1959). The results of the theoretical analysis consists in an approximate calculation formula for the theoretical analysis consists in an approximate calculation formula for pressure on the projection area of the stamping done in closed dies (without burrs):

Card 1/4

22065

s/182/61/000/006/001/007 D038/D112

The technology of stamping ....

stamping ....
$$q = \frac{a_S}{\pi} \left[ \overline{a} + \overline{b} + \mu \overline{b} (\overline{b} + 2\overline{a}) + 0.4 (3\overline{a} - \overline{L_0}) \sqrt{\overline{L_0}} + \frac{\mu'(\overline{a} - \overline{L_0})}{\overline{h_n}} \right],$$
where
$$\overline{a} = \frac{a}{h}; \quad \overline{b} = \frac{b}{h}; \quad \overline{h_n} = \frac{h_n}{h}; \quad \overline{L_0} = \frac{L_0}{h} = 0.5 \overline{h_n}^2;$$

Os- resistance of metal to deformation (yield strength); b and h width and thickness of the burr; \( \mu \) and \( \mu' - \text{rated friction factors on the contact surfaces of the burr and in the stamp cavity. The stamping effort can be determined graphically (Fig. 2). It has been confirmed in practice that presure in cold stamping of pure aluminum is 60-100 kg/mm², and in aluminum alloys 120-200 kg/mm². Cold stamping ensures high surface quality and requires no subsequent machining. The metal strength is considerably raised after cold stamping, e.g. the strength of \( \mu 1 \) (D1) alloy reaches 50 kg/mm² after cold deformation above 50%. Development of new technological lubricants for hot and cold stamping, and research into new die steel grades for cants for hot and cold stamping, and research into new die steel grades for high pressure up to 100 kg/mm² at 500°C and up to 300 kg/mm² at room tem-

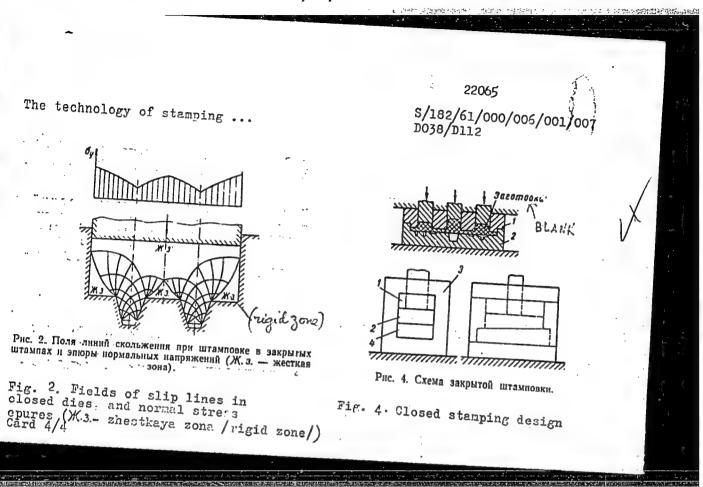
Card 2/4

22065 S/182/61/000/006/001/007 D038/D112

The technology of stamping ...

perature are very important. Sectional stamping methods of large parts by presses of a limited capacity are being developed. Experimental work carried out by VNIIMETMASh confirmed the feasibility of the sectional stamping of thin-walled ribbed parts from aluminum alloys. A design of a closed die consists in the press effort being transmitted to several die sections in the reaction. The die cavity is filled by excess metal from blank parts. The reaction force in the closed upper (1) and lower (2) die cavities is removed by subsequent machining. Experiments proved that a 2-3 times lesser disks from heat-resistant alloys has been developed and tested. Further figures and 2 Soviet references.

Card 3/4



SHOFMAN, L.A.; KAGALOVSKIY, A.I.

Die stamping in the United states of large-size parts on powerful hydraulic presses (review of foreign publications). Kuz. shtam. proizv. 3 no. 5:37-41 My ¹61. (MIRA 14:5) (United States—Sheet-metal work)

ROZHKOV, V.M.; SHOFMAN, L.A.; ROZANOV, B.V.; KUZ'KO, Yu.P.; PONGIL'SKIY, N.F.; LIVANOV, V.A.; LUCHIN, V.V.; KUZNETSOV, K.I.; TSYPER, V.A.; CHEKNOSHTAN, V.K.

Points for pipe presses. Biul.TSIICHM no.9:52 (Pipe mills-Equipment and supplies)

MIRA 15:4)

•

S/902/62/000/000/00½/015 E193/E383

AUTHORS:

Shofman, L.A. and Rozhkov, V.M.

TITLE:

Fabrication of profiles and tubes by extrusion

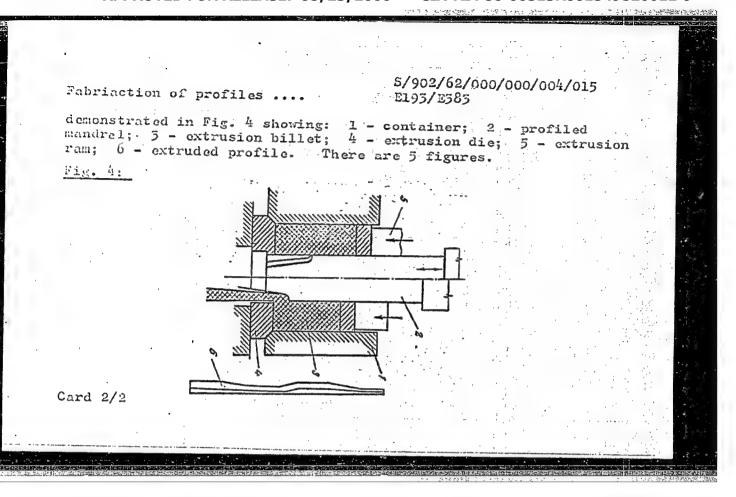
SOURCE:

Novyye protsessy obrabotki metallov davleniyem; doklady Soveshch. po novym prots. obrab. met. davleniyem v mashinostr., 1960. Ed. by

V. D. Golovlev. Moscow, Izd-vo AN SSSR, 1962.

61 - 65

TEXT: This is a general discussion of recent development in the extrusion of articles with continuous or intermittently-varying cross-section. The advantages of the process are discussed and its principles are explained by briefly describing the following: 1) extrusion of profiles with a cross-section varying in a step-like fashion; 2) inverted extrusion of angle-profile with continuously varying cross-section; 3) inverted extrusion of internally-ribbed tubes with continuously varying outside and inside diameters and wall thickness; 4) direct extrusion of profiles whose cross-section varies in an irregular manner. The last of these processes is based on the application  $C_{\rm ard}^{1} L_{\rm alg}^{1}$  and  $C_{\rm ard}^{1} L_{\rm alg}^{1}$  dependently driven mandrel; its principle is schematically



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EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(b) Pf-4

ACCESSION NR AM4048668

BOOK EXPLOITATION

Shofman, L. A.

Theory and calculations of cold forging processes (Teoriya i raschety\* protsessov kholodnoy shtampovki), 2d ed., rev., Moscow, Izd-vo "Mashinostroyeniye", 1964, 373 p. illus., biblio., tables. Errata slip inserted. 6,000 copies printed.

TOPIC TAGS: cold forging

PURPOSE AND COVERAGE: The book gives the principles of the theory and methods of calculating the technological processes of cold forging. It gives information on the parameters of press equipment and the results of experimental research. The book is intended for engineers and researchers working in press shops, design organization, and research institutes. It can also be useful to teachers and students in higher technical education institutions.

TABLE OF CONTENTS [abridged]:

Part 1. Principles in the theory of metal pressure working

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Ch. II. Principles of engineering methods of calculating metal pressure
   working -- 21
Ch. III. Strengthening metal in cold plastic deformation -- 50
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Part 2. Cold forging sheet and tubular billets
Ch. VI. Classification of technological processes -- 108
Ch. VII. First operation of drawing a hollow cylinder with clamping of the
   billet -- 114
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ACCESSION NR: AR5005708

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SOURCE: Ref. zh. Tekhnol. mashinostr. Sv. t., Abs. 10V23

AUTHOR: Rozanov, B.V.; Shofman, L.A.; Gol'man, L.D.; Maksimov, L.Yu.; Rozhkov, V.M.; Andreyev, A.S.; Shcheglov, V.F.; Tokarskiy, A.P.

TITLE: Development of powerful forging presses and new pressure metalworking methods

CITED SOURCE: Tr. Vses. no.-i. i proyektno-konstrukt. in-ta metallurg. mashinostr., sb. 12, 1964, 353-391

TOPIC TAGS: pressure metalworking, hydraulic press design, hammer design

TRANSLATION: The article surveys the activities of VNIMETMASh from its inception. Described are designs of hydraulic presses and hammers developed at the Institute, as well as new technological processes for pressure metalworking (including hydrostatic techniques) Bibl. with 21 titles; 26 illustrations.

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Card 1/1

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AUTHOR: Saprykin, A. A.; Shofman, TITLE: Metal flow while pressing	tems of variable c	ross section		
l-m 0310 :	HTG12VUUGG501			
TOPIC TAGS: tube pressing, pipe pression, radius die technique, hodografiow, radius die technique, hodografion, radius die technique, hodografion die technique, hodografie die technique die technique, hodografie die methods in the manufacture of length. Among these methods, the of tubular form having a variable importance. The essential nature experimental study of the process ring-shaped narrowing was noted in the thick-walled part of the tube be possible to eliminate this defia theoretical investigation of me plastic analysis which takes into	ion to the trend in items with a varial process of product and periodic cross of this process is of pressing tubulant the transitional whenever a flat discrete in the pressed	n recent years to us ble cross section al- ing blanks and finis section is of parti- briefly described. It blanks of this type zone from the thin- ie was used. It was tubes by using the	ong their hed items cular In an pe, a walled to found to results of	
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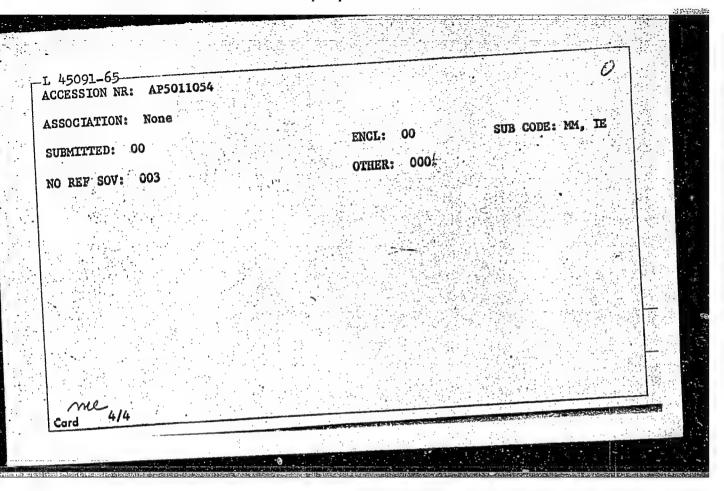
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sence in the deformed body of rigid (elastic) nuclei. Although this method, described in full in the present article, was developed for flat deformation, it can be used successfully when investigating the pressing of thin-walled tubes, since in this process the axial and radial deformations are many times greater than the tangential. Since the constriction or narrowing of the tube billet (skelp) is caused by a sharp change in the direction of metal flow when leaving the die as the duct passage changes, an analysis of the various pressing parameters and, in particular, the determination of the effect of die geometry and the position of the mandrel with respect to the die, requires that the direction of the flow speed vector be found for different cases. This is accomplished by plotting characteristic graphs in the plane of the velocities (1.e., a hodograph) according to a known field of characteristics in the physical plane. The construction of a hodograph makes it possible to determine the velocity vector for the displacement of any point in the plastic zone of the skelp as a function of tool form and the relative arrangement of its individual parts. The characteristic field in the velocity plane is plotted, in the authors' approach, through the use of a graphic method, based on the condition of orthogonality with respect to the corresponding segments of the characteristics field in the physical field.

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44.55 Yu.; Rozhkov, V. M.; Starikov, V. B.;	
ACCESSION NR: AP3021020  AUTHOR: Shofman, L. A.; Gedymin, Yu. Yu.; Rozhkov, V. M.; Starikov, V. S.;  Kryuchkov, M. A.; Davydov, G. W.; Akhmetshin, M. Kryuchkov, M. Roythor, L. Kh.; Yermanok, M.	Z
AUTHOR: Shofman, L. A.; Gedymin, Id. Ryllas; Kvitnitskiy, A. S.; Kryuchkov, H. Roydov, G. W. S.; Akhmetshin, M. Roydov, Roytbarg, L. Kh.; Yemanok, M. Rogozinskiy, A. A.; Feygin, V. I.; Yegorov, I. V.; Roytbarg, L. Kh.; Yemanok, M. Rodionov, A. S. Y4, S.; Roydov, G. S. Y4, S.; Roytbarg, L. Kh.; Yellow, S. Y4, S.; Roytbarg, S. Y4, S.; Roytbarg, S. Y4, S.; Roytbarg, S. Y4, S.; Roytbarg, S. Yang, S.	
Rodionov, A. S. 44,55	
TITLE: Method for tube extrusion. Class 49, No. 172601	
TITLE: Method for tube extrusion	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 101	
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TOPIC TAGS: metal, metal tube, metal extrusion, tube extrusion	3 特別 <b>數</b>
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ACCESSION NR: AP5021621

ASSOCIATION: none

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Arutyunov, I. G.; Revunov, V	; Pyatunin, A. I.; Yefanov, V. A.; Zemskov, A. A.; Shofman	. I.; Yakovlev, S. A.;	B	
ORG: nert 17.	BS tubes. Class 7, No. 17502	44		
John Inion Scientific Research an	d Design-Planning Institute o	f Metallurgical Equip-		
ment (Vsesoyuznyy nauchno-is metallurgicheskogo mashinost	sledovatel skiy i proyektno-k	onstruktorskiy institut		1.0
SOURCE: Byulleten' izobrete	niy i tovarnykh znakov, no. 1	9, 1965, 9		
	tube, thin wall tube, light a			
ABSTRACT: This Author Certi	ficate introduces a method for	r making seamless tubes,		
e.g., light-alloy tubes from	rolled, forged, or cast tube with precise dimensions and	a clean surface, the tube		:
shell is first hot rolled wi	th expansion in a helical mil	1 and then cold rolled	!	
with elongation in a helical	14	[AZ]		
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L 33437-66 EMT(m)/EWP(w)/EWP(t)/ETI/EWP(k) IJP(c) JD/HW/EM

ACC NR: AP6012731 SOURCE CODE: UR/0136/66/000/004/0078/0081

1/2

AUTHOR: Shofman, L. A.

ORG: none...

TITLE: Minimum thickness of butt and "jacket" in the pressing of nonferrous metals and alloys

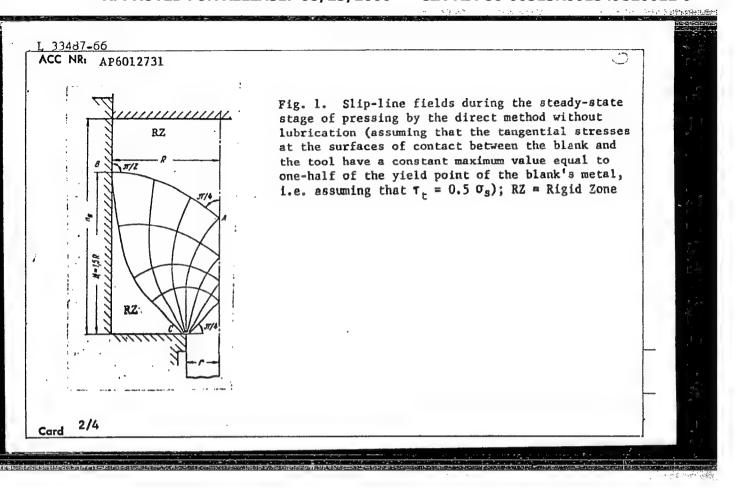
SOURCE: Tsvetnyye metally, no 4, 1966, pp 78-81

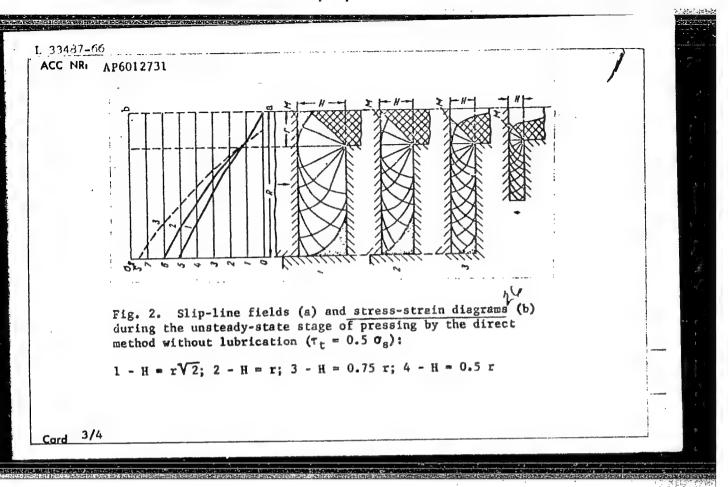
TOPIC TAGS: metal pressing, waste metal, nonferrous metal, nonferrous metal alloy, die, mathematic analysis

ABSTRACT: In the pressing of shapes and tubes part of the metal has to be scrapped as butt. The minimum thickness of the butt at which the extrusion shrinkage cavity can still be averted may be determined by plotting slip-line fields (cf. Shofman, L. A. Teoriya i raschety protsessov shtampovki. Izd-vo "Meshinostroyeniye," 1964), which refers to the volume of the plastic zone bounded by two orthogonal slip lines Ab and BC within the rigid zone (Fig. 1): as the distance between the dummy block and the distances, the volume of the plastic zone gradually diminishes and the slip-line field changes correspondingly (Fig. 2) until the normal pressure exerted by the metal on the dummy block at point M becomes zero, which means the possibility of the formation as

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UDC: 669.2/.8: 621.97





L 33487-66

ACC NR: AP6012731

an extrusion shrinkage cavity. This possibility can be averted by determining the minimum thickness  $H_{\min}$  of the butt from the formula for the minimal percentage of the metal wasted as the butt:

$$\alpha_{\min} = \frac{H_{\min}}{H_0} \cdot 100 = \frac{100}{2 \text{ mV} \lambda} \%,$$

where  $\lambda=D^2/d^2$  is the elongation coefficient, D and d are the diameters of the blank and the end-product, respectively;  $m=H_0/D$  ( $H_0$  is the initial height of the blank). Further, the hot pressing of nonferrous metals leads to the formation of the so-called "jacket"; the dummy block, whose diameter is somewhat smaller than the diameter of the container, separates the outer defective annular layer of the ingot, which is subsequently scrapped. The length of this "jacket" may not exceed the original length of the ingot, i.e. the metal should not flow into the gap between the dummy block and the container in the direction opposite to the direction of the dummy block. On this basis a corresponding formula for the optimal thickness of the "jacket" is derived for an ingot of radius R being extruded through a die hole of radius r. Orig. art. has: 4 figures, 2 tables.

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 001

Card 4/4 0 0.

## "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9

SOURCE CODE: UR/0000/66/000/000/0152/0157 ACC NR: AT7007354

AUTHOR: Shofman, L. A.

ORG: none

TITLE: Extrusion of complex shapes

SOURCE: Soveshchaniye po avtomatizatsii protsessov mashinostroyeniya. 4th, 1964. Avtomatizatsiya proteessov svarki i obrabotki davleniyem (Automation of welding and pressure treatment processes); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1966, 152-157

TOPIC TAGS: METAL extrusion, Elle, seed to the party of the seed o

Thurston white action is a compact this will be a funious and making CONDER CLUMINUM EXTRUSION, METAL TUBE, EXTRUDED FORGING, EXTRUDED ALUMINUM

ABSTRACT: The author briefly reviews some new methods for extruding various shapes developed and tested at the All-Union Scientific Research Institute of Metallurgical Machinery (VNIIMETMASH) including reverse extrusion of variable section shape and tubes, extrusion of flat and finned steel tubes with variable thickness and height of fins and extrusion of variable-section aluminum-alloy tubes with 12 longitudinal channels. Variable and periodical section shapes and tubes are extruded by a cyclic reverse operation mandrel. Aluminum alloy tubes

UDC: Card 1/2\_

### "APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9

ACC NR: AT7007354

extruded with ring-shaped thickening were successfully tested in drillhole operations; their strength is similar or higher than that of steel tubes and they are 2.5 times lighter. Tubes with dead end were obtained which can be used for production of thin-walled containers with thickened bottom and neck. Extrusion of aluminum alloy tubes 250 mm in diameter with longitudinal inner fins and ring-shaped thickening and experimental specimens of steel tube with thickened ends were obtained. Doublechannel aluminum tubes, 7mm in diameter, 0.5-0.7mm (wall) thick with diametric baffle plate, were used as heat exhangers for an experimental unit at the Institute of Physical Problems AH SSSR. Aluminum-alloytube heat exchangers with internal and external screw fins and steel tubes with external right or screw tooth used as blank for production of gear wheel and rings were extruded. A technological process, working tool and unit for semicontinuous hot extrusion of steelaluminum or copper-aluminum cable has also been developed. [AZ]has: 9 figures.

SUB CODE: 13/ SUBM DATE: none

Card 2/2

. SUBJECT:

USSR/Medicine

7 17 1. 1 . 1 . . . / Vi.

25-5-23/35

AUTHOR:

Novinskiy, G., Dr. and Shofman, M. Dr.

TITLE:

Acupuncture - (Chrhentszyuterapiya)

PERIODICAL:

Nauka i Zhizn' - May 1957, No 5, p 51 (USSR)

ABSTRACT:

The needle puncturing therapy has been known in China for many centuries. It consists of pricking into certain spots of the human body with a special needle and turning it several times. According to Chinese experts there are from 100 to 720 such spots, each of which corresponds with some body organ or an illness. Two puncturing methods are distinguished: one soothing, the other irritating. Acupuncture has given satisfactory results when applied against sciatica, heartaches, muscular rheumatism and similar pains in other organs. Tests have revealed that satisfactory results largely depend on the skill with which the needle is handled. Acupuncture has been lately adopted by a few Soviet hospitals.

Card 1/2

SHOFMAN, Maks Adol'fovich; SOROKO, Ya.I., red.; RAKITIN, I.T., tekhn.

["Secrets" of oriental medicine] "Sekrety" vostochnoi meditsiny. Moskva, Izd-vo "Znanie," 1963. 39 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.2)

1. Klinika Moskovskogo gosudarstvennogo universiteta (for Shofman).

(MEDICINE, CHINESE) (MEDICINE, HINDU)

Automation of filler production processes. Biul.tekh.-ekon.
inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 16 no.6:42-45

(63. (Mixing machinery) (Automation) (MIRA 16:8)

SHOFMAN, M.Sh.

Manufacturing a set of high-precision groove-grinding machines. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 18 no.7:25-27 Jl 165. (MIRA 18:9)

SORSHER, I.I.; SHOFMAN, M.S.

Introducing an automatic line for sine plating of parts. Biul. tekh.—ekon.inform.Gos.nauch.—issl.inst.nauch.i tekh.inform. 18 no.11:9 N \*65.

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VARSHAVSKIY, D.S., inzh.; LANTSEV, A.G., inzh.; SHOFMAN, O.S., inzh.; PETRASHKEVICH, N.I., inzh.

Power factor increasing KMV and KSV-series condensers.

Vest. elektroprom. 33 no.5:56-61 My '62. (MIRA 15:5)

(Ust'-Kamenogorsk-Electric equipment industry)

(Condensers (Electricity))

SHOGAM, A. N. and RISHAN, B. Ya.

"Problem of the Pathogenesis of Poisoning by Tetraethyl Lead," Far. i Toks.,

11, No.3, 1948

30977. SHOSAE, A. M., RASHAP, B. YA., AND SHEVKO, A. D.

Mekotorye fiziologicheski aktivnye veshchestva v krovi donorov. Trudy Ukr. psikhonevrol. In-ta, t. XXV, 1949, s. 31-36

31077. OFOGNY, A. M.

Gumoral'nye faktory reaktivnosti nervnoy sistemy pri shizofrenii. Trudy Ukr. psikhonevkol. in-ta, t. xxv, 1949, s. 45-58

#### SHOGAM, A.N.

Tikhon Ivanovich IUdin; 5th anniversary of his death. Zhur. nevr. i psikh. 54 no.11:945-947 N '54. (MLRA 8:1) (IUDIN, TIKHON IVANOVICH, 1879-1949)

POGIBKO, I.I.; PLOTICHER, A.I.,; SHOGAM, A.N.

Tasks and methods in the prevention and preventive therapy of mental diseases. Zhur.nevr. i psikh. 55 no.7:535-539 '55.

(MLRA 8:10)

1. Ukrainskiy nauchno-issledovatel skiy psikhonevrologicheskiy institut.

(MENTAL DISORDERS, prevention and control)

SELETSKIY, A.I.; SHOGAM, A.N. (Khar'kov)

Improving statistics in psychoneurological institutions discussion.

Zhur.nevr. i psikh. Supplement:96-97 '57. (MIRA 11:1)

(MEDICAL RECORDS)

SHOGAM, A.N.; SELETSKIY, A.I.

Calculatory methods for evaluating some statistical data on the work of psychoneurological institutions. Zhur.nevr. i psikh.

Supplement: 97-98 '57. (MIRA 11:1)

1. Iz organizatsionno-metodicheskogo otdela (zav. A.N.Shogam)
Ukrainskogo nauchno-issledovatel'skogo psikhonevrolologicheskogo
instituta, Khar'kov.

(MEDICAL RECORDS)

#### LESHCHENKO, A.I.; SHOGAM, A.N.

Some complex forms of the disturbance of the space perception. Zdrav.Turk. 2 no.5:26-30 S-0 58. (MIRA 12:6)

1. Iz kliniki nervnykh bolezney (zav. - zasluzhennyy prof.A.I. Geymanovich [deceased]) Ukrainskogo nauchno-issledovatel'skogo psikhonevrologicheskogo instituta i kafedry psikhiatrii (zav. - dots. A.N.Shogam) Turkmenskogo gosudarstvennogo meditsinskogo instituta im. I.V.Stalina.

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Some aspects of the reorganization of psychiatric education. Zhur. nevr.i psikh. 59 no.10:1256-1258 '59. (MIRA 13:3)

LESHCHENKO, A.G.; SHOGAM, A.N.

New type of pathological grasping reflex and its significance in the diagnosis of tumors of the frontal lobe. Zdrav. Turk. 4 no. 3:28-32 My-Je '60. (MIRA 13:10)

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(REFLEXES) (HRAIN—TUMORS)

SHOGAM, A.N. (Khar'kov)

"Nature of the individual consciousness (in healthy and pathological conditions)" by A.A.Megrabiana. Reviewed by A.N.Shogam. Zhur. nevr. i psikh. 61 no.11:1741-1744 '61. (MIRA 15:2) (CONSCIOUSNESS)

#### SHOGAM, I.I.

Method for the investigation of skin sensitivity. Vrach.delo no.3:315 Mr 160. (MIRA 13:6)

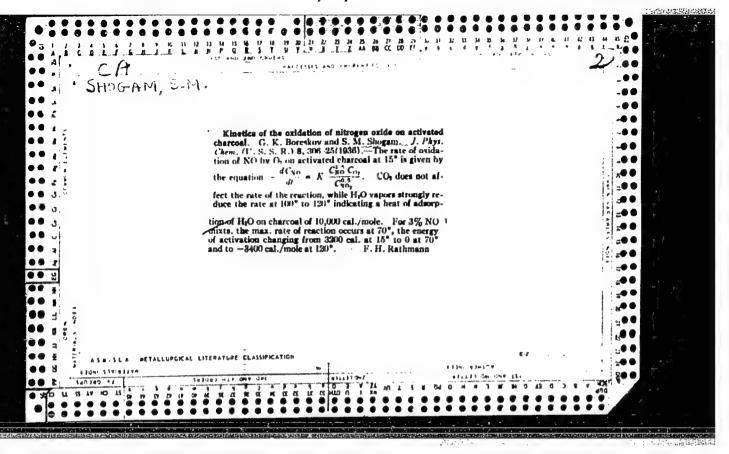
1. Odesskiy nauchno-issledovatel¹skiy psikhonevrologicheskiy institut.

(MEDICAL INSTRUMENTS AND APPARATUS) (SKIN)

LISTITSKAYA, F.M.; SHOGAM, I.I.

Role of the sympathetic trunk in the clinical picture of lesions of the midbrain. Zhur.nevr. 1 psikh. 63 no.12:1813-1817 (63. (MIRA 18:1)

1. Odesskiy nauchno-issledovatel'skiy psikhonevrologicheskiy irstitut (direktor A.G.Leshchenko, nauchnyy rukovcditel' - prof. f.Yu.Vyyasnovskiy)



SHOGAM, S. M.

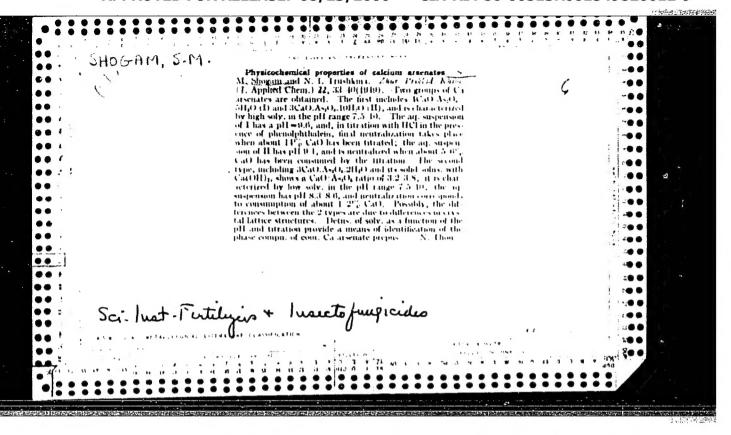
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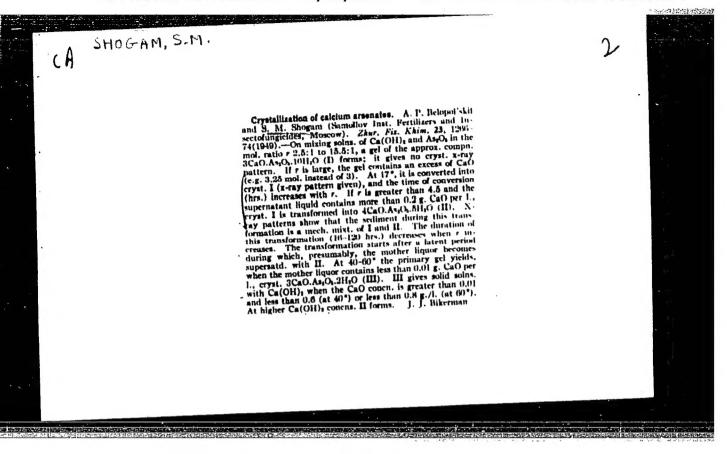
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36588. BLLOTCL'SKII, A. P. i SHOGAH, S. M. O Kristallizatsii Aresenatov Kaltsiya. Zhurnal Fiz. Khimii, 1949, Vyp. 11, c. 1266-74. - Bibliogr: 9 Mazv.

30: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949





#### "APPROVED FOR RELEASE: 08/23/2000

#### CIA-RDP86-00513R001549820012-9

USSR/Chemistry - Insecticides

FD-505

Card 1/1

: Pub. 50-4/23

Authors

: Bezuglyy, S. F., Cand. Chem. Sci., and Shogam, S. M., Cand. Chem Sci

Title

: Some physico-chemical properties of insecticide emulsions and insecti-

cide dusts

Periodical

: Khim. prom., 272-278 (16-22), Jul/Aug 1954

Abstract

: Reviews on the basis of USSR work the properties of emulsions and dusts containing DDT, hexachlorocyclohexane, thiophos, and chlorten (chlcrinated turpentine or chlorinated alpha-pinene fraction). Describes procedures for the production of these emulsions and dusts. Twenty two

references; 20 of them USSR, all since 1940. Three graphs.

Institution : Scientific Research Institute of Fertilizers and Insectofungicides.

Submitted

Shoo	& A DY	, J,	"".		
				4	
			,	Physicochemical study of calcium argenute. 5. M.	
			•	hogem (S-i, Inst. Pertilizers and Insectioning arteriate. 5. M.)  Serie Isstediantya po Perkiad. Khim., Ikad. Nank  ISS.R., Oldel. Khim. Nank 1955, 213-24.—Previous ob-  revations (C. 1, 44, 28164) were confirmed and addul, study  verseld that NaAs 0, in aq. suspension of Ca(OH), reacts  form CaNaAsOLSH40 at 20°, or CaNaAsOl-H40 above  10°. The octahydrate is metastable when the ratio of the	
		* 2		reactant. (expressed as CaO:As <sub>2</sub> O <sub>5</sub> ) is >2, and at 20° it changes into 4CaO.As <sub>2</sub> O <sub>3.5</sub> H <sub>2</sub> O (I). The tetrahydrate is necessable even when the ratio is 2:1 and it changes at elevated temp. either into I or into solid solns. of Ca(OH), at the 3CaO.As <sub>2</sub> O <sub>2.2</sub> H <sub>2</sub> O (II). Study of thermograms and cray photographs revealed that 3CaO.As <sub>2</sub> O <sub>3.1</sub> OH <sub>2</sub> O when heated to 500°, besides dehydration at 90-100°, did not	
			18. a.	andergo any other changes. At 200-215° I lost water and the 350° went into solid phase. Heating II contg. solid solns, of Cu(OH), up to 500° did not change the parameters of the crystal grating.  A. P. Kotloby	
		•			